

# INTERNATIONAL SEARCH REPORT

International application No.

PCT/KR2004/000781

## A. CLASSIFICATION OF SUBJECT MATTER

IPC7 C07K 1/113, C07K19/00

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC7 C07K 1/113, C07K19/00

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Korean Patents and Applications for Invention

Japanese Patents and Applications for Invention

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

Delphion, CA "(PEG or polyethylene glycol) and (half-life) "

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 6,106,828 (Novo Nordisk A/S) 22 Aug. 2000	1-12
A	US 4,179,337 (Frank F. Davis et al.) 18. Dec. 1979	1-12
A	Pharmaceutical Research, Vol.16, No.6, 1999, pages 813-818, Kang Choon Lee et al., "Isolation, Characterization, and Stability of Positional Isomers of Mono-PEGylated Salmon Calcitonins"	1-12
A	Biological and Pharmaceutical Bulletin, Vol.24, No.6, 2001, pages 666-670, Ya-Ping Lee et al, "PEGylated Recombinant Human Tumor Necrosis Factor Alpha : Pharmacokinetics and Anti-tumor effects"	1-12



Further documents are listed in the continuation of Box C.



See patent family annex.

\* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier application or patent but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&" document member of the same patent family

Date of the actual completion of the international search

01 JULY 2004 (01.07.2004)

Date of mailing of the international search report

01 JULY 2004 (01.07.2004)

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# INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.

PCT/KR2004/000781

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US4179337	18.12.1979	SE 0441753C DE 2433883C	13.02.1986 27.03.1986
US6106828	22.08.2000	WO 9730148A JP2000506119T EP0894128A CN1211278A CA2242488A AU1540697A	21.08.1997 23.05.2000 03.02.1999 17.03.1999 21.08.1997 02.09.1997